

ABSTRACT

5 The generation of a graphical three-dimensional (3D) view of a system model of a Micro
Electro-Mechanical System (MEMS), which also may be depicted in a schematic view, is
disclosed. Information contained in the system model is used to generate 3D representations of
model components which are then assembled into an overall model. The system model is
composed by selecting MEMS component models from a MEMS component library. The
10 MEMS component models include parameter information and include or reference 3D view
generators used to generate the 3D view of the associated component. The system model is
programmatically analyzed to identify the associated 3D view generators used to generate the 3D
views of the components. The visualization process may be extended to include a simulator
which simulates the underlying system model. The simulation results are then displayed by
15 using the 3D visualization process to present 3D views of the model as it changes during
different points in the simulation.